

Analysis of DPI Studies

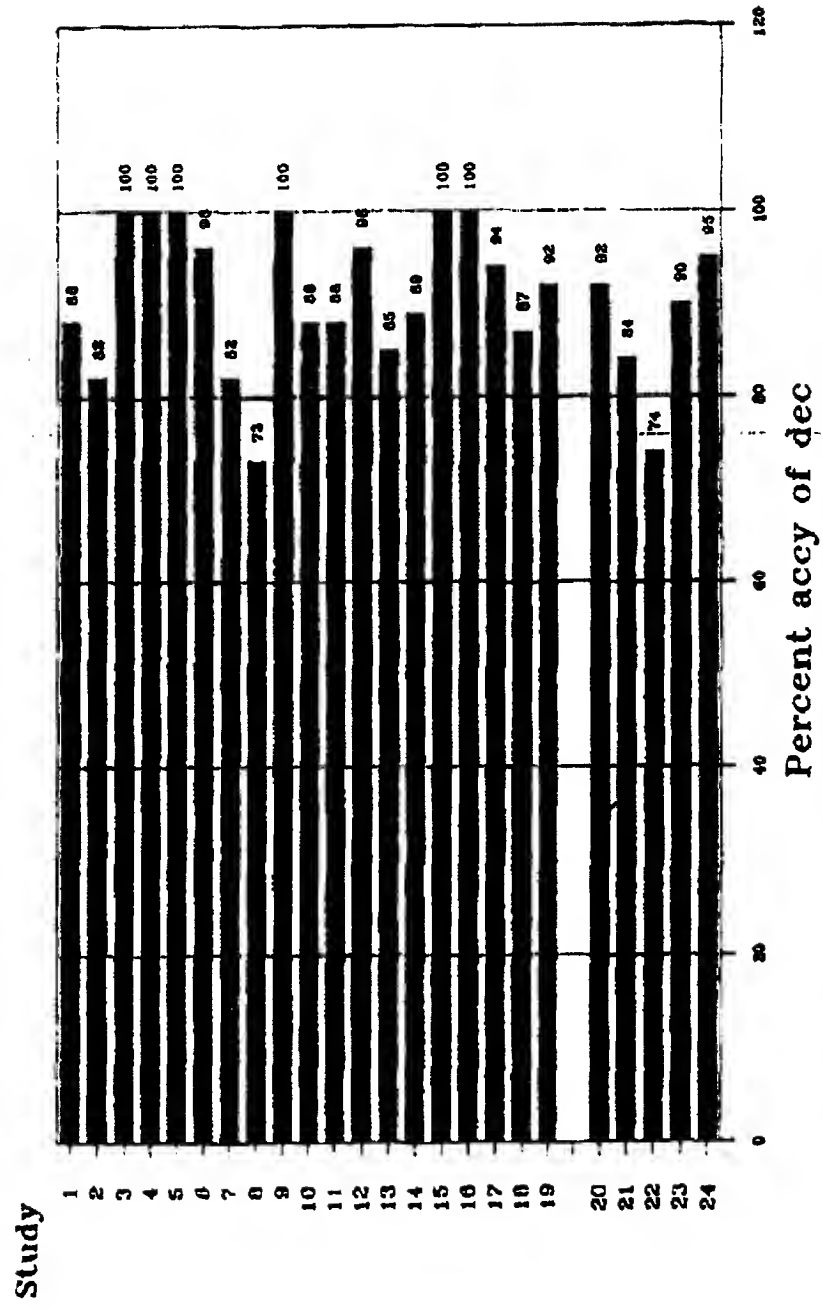
561

DoD Polygraph Institute

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Decision accy, Criminal, Guilty Ss Others and DPI



KEY

TITLE	n	% Incl
1. Barland & Raskin (1975)	36	28
2. Podlesny & Raskin (1978)	20	15
3. Raskin & Hare (1978)	24	12
4. Rovner et al (1979)	24	12
5. Dawson (1980)	12	-
6. Hammond (1980)	32	25
7. Bradley & Janisse (1981)	96	26
8. Szucko & Kleinmuntz(1981)	15	-
9. Ginton et al (1982)	2	-
10. Bradley & Ainsworth (1984)	16	-
11. Gatchel et al (1984)	14	43
12. Honts et al (1985)	31	19
13. Honts et al (1986)	20	35
14. Foreman & McCauley(1986)	22	14
15. Honts et al (1987)	10	20
16. Driscoll, Honts, & Jones 1987	20	10
17. Kircher & Raskin (1988)	50	6
18. Patrick & Iacono (1989)	24	4
19. Horowitz (1989)	15	20

20. Multi-Issue	77	19
21. 1/2 Time lag	40	8
22. ZCT	20	5
23. MGQT	44	5
24. Mot-1	30	27

Key Findings

1. DPI mock crime accuracy:

a. 21% inconclusive

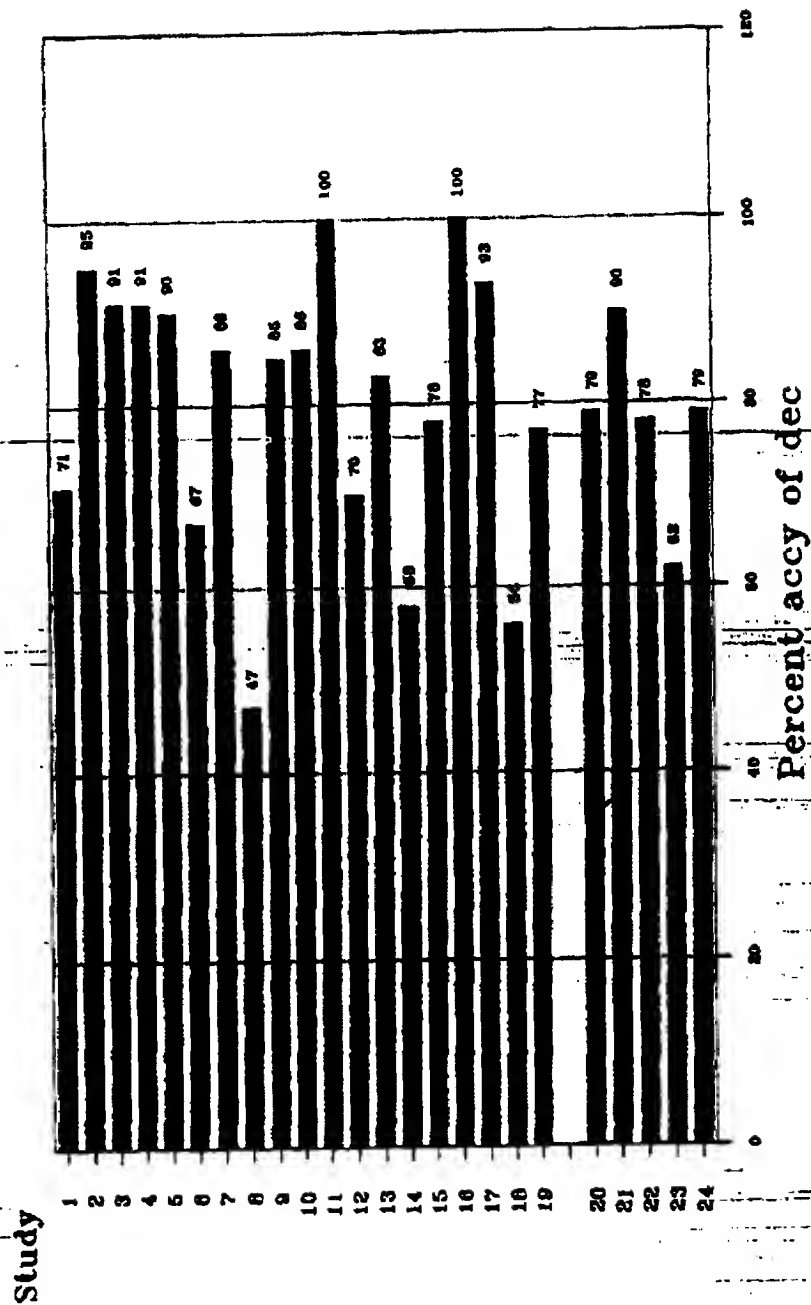
b. 84% accuracy of decisions (excl incl)

2. DPI is just as accurate as other labs.

a. 19% inconclusive

b. 86% accy of decisions

Decision accy, Criminal, Innocent Ss Others and DPI



Key Findings

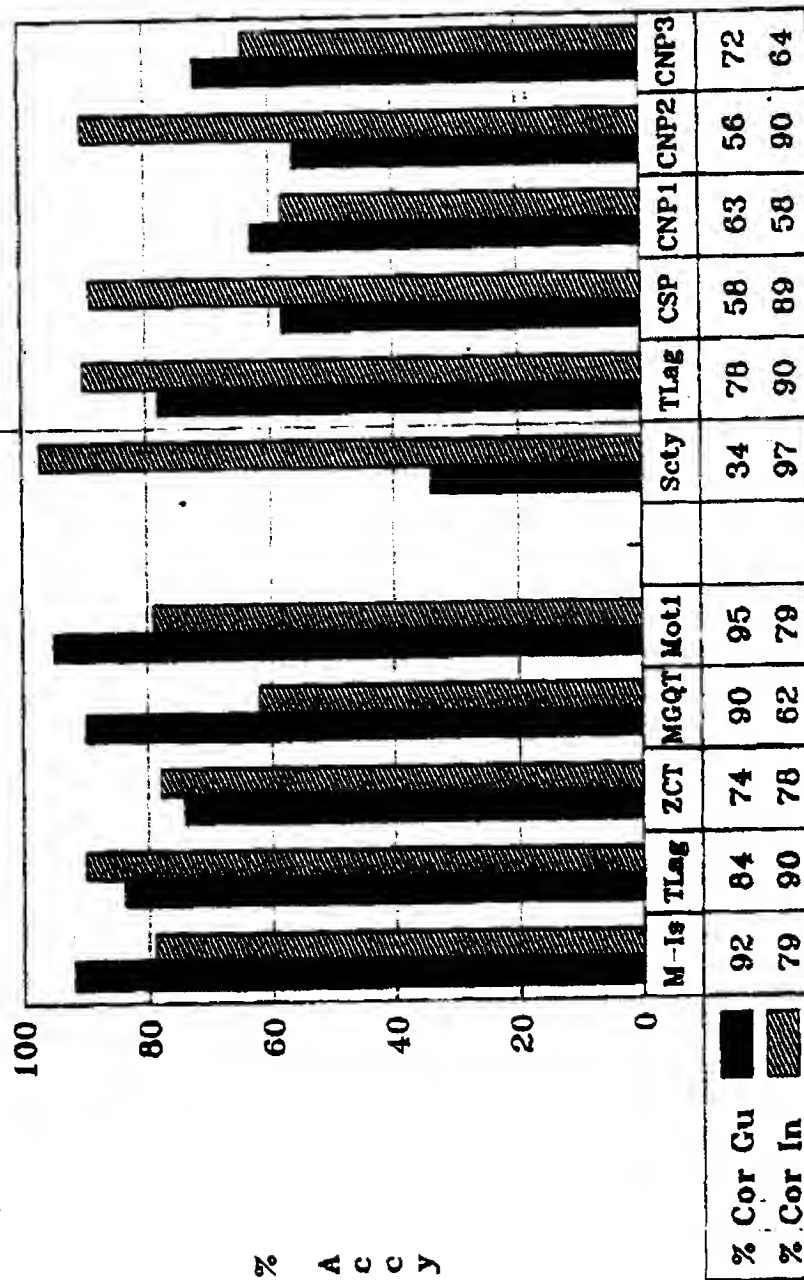
DPI mock crimes compared to
non-DPI mock crime studies:

3. Guilty Ss are just as easily detected.

4. Innocent Ss are just as easily cleared.

[But...DPI has more inconclusives
on innocent Ss (33%) than do
other labs (21%)]

All DPI Studies, Guilty & Inno **Accy of decisions (excluding incl)**



List of DPI Studies

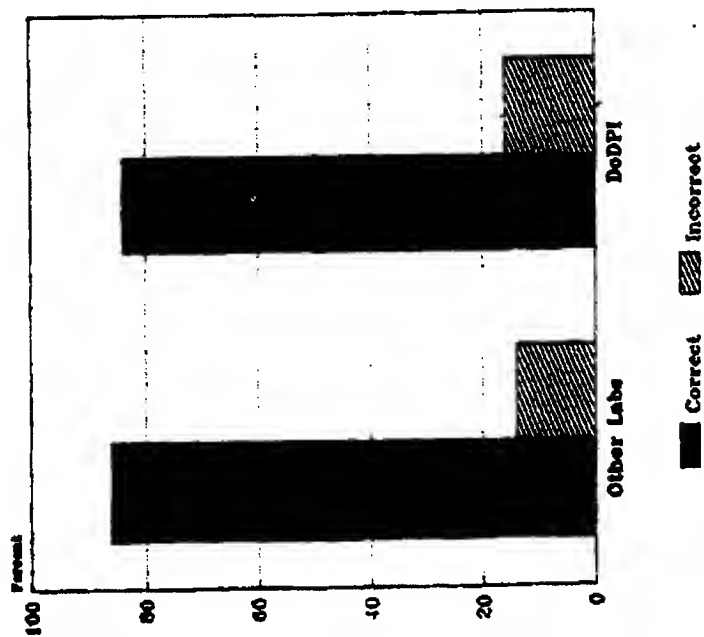
Mock crime

1. Multi- v. Single-Issue tests N = 100
2. Time Lag & Question Specificity study
(criminal half) N = 50
3. ZCT study N = 40
4. MGQT study N = 88
5. Motivation study N = 60

Mock Screening

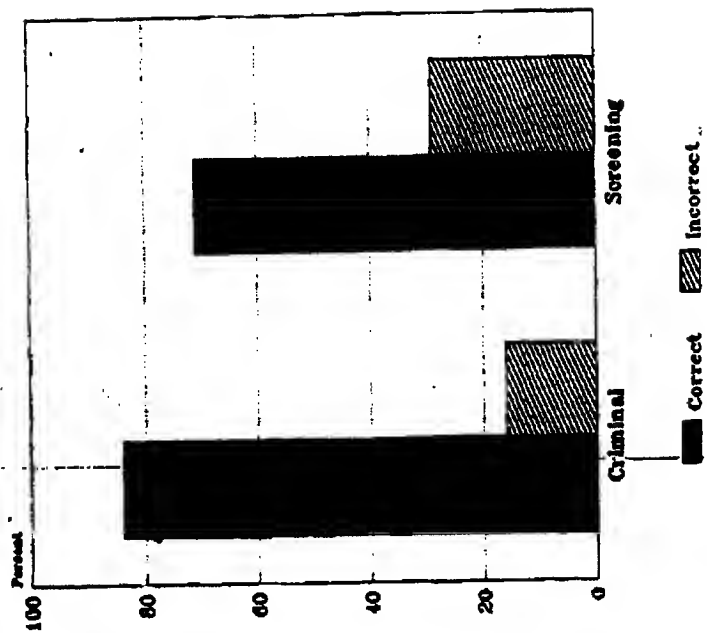
1. Security Screening validation study N = 207
2. Time lag & question specificity study
(screening half) N = 50
3. CSP question study (old v new) N = 151
4. CNP-1 (Scenarios) N = 86
5. CNP-2 (CQs) N = 120
6. CNP-3 (Pretest) N = 183

Accuracy of Mock Crime studies
 DPI (N = 336) v. other Labs (N = 961)



Mock Other = 19%, DPI = 21%

Accuracy of Examiner Decisions
 Criminal (N = 336) v. screening (N = 793)



Ind: Criminal = 21%, Screening = 23%

Key Finding

Mock Screening Studies

5. The polygraph is less accurate in
— mock screening studies than in —
mock crime studies.
6. Most errors in mock screening are FNs...